**Biology Four Lesser Known Kingdoms Project**

WHAT?

Goal: Create a presentation (Google Presentation, PowerPoint, or Prezi) which describes the structure, function, and other characteristics of a specific species of bacteria, archaea, protist, and fungi

WHEN?

In-class work dates: Thurs Oct 9 (alpha & epsilon), Fri Oct 10 (all), Tues Oct 14 (all), & Thurs Oct 16 (all)

**Due: Fri Oct 17**

WHERE?

In-class (see above dates) and out of class if don’t complete in class

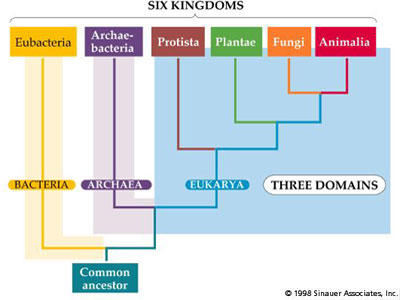
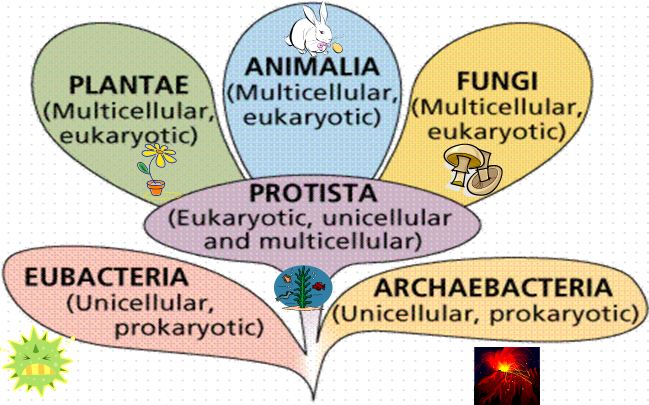
WHY?

To better understand the structure and function of bacteria, archaea, protist, and fungi

HOW?

Use resources (textbook, internet), Google Presentation, Microsoft PowerPoint, or Prezi.

BACKGROUND INFO

Living organisms have been categorized into six kingdoms: Eubacteria, Archaebacteria, Protista, Plantae, Fungi, and Animalia. As more information has been gained (ex. specific DNA sequences), living organisms have more recently organized into three domains (“super kingdoms”): Bacteria, Archaea, and Eukarya. Study the diagrams below so see these classifications.

Of all the kingdoms we tend to be most familiar with animals and plants and these organisms are larger and more easily seen (and we are animals so we interact with ourselves everyday). The goal of this projects is for you to become more familiar with the kingdoms which are less familiar to us.

**Information to include for each species**

For each species you choose (one bacterium, one archaea, one protest, one fungi) you must include the following:

* **Common name** (Ex. Coral fungus)
* ***Scientific name*** (*Ex. Ramaria araiospora)*
* **Clear pictures of that specific species**
* **Description of structure (What does it look like, specific parts, etc.)**
* **Description of habitat (What type of environment does the species live in? What parts of the world?)**
* **Description of function (What does the organisms do?)**
* **Energy sources (How does the organism get its energy? Photosynthesis? Consume other organism?)**
* **Relationship to humans (Is the species helpful to humans? Harmful? Neutral?)**
* **ALL SOURCES CITED**

**Rubric**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Exemplary (3)** | **Proficient (2)** | **Partially Proficient (1)** | **Unsatisfactory (0)** | **Total points** |
| **Info** | ALL information is included and accurate | Most information is included and accurate | Some information is included and accurate | Little to no information is included and accurate | /6 |
| **Writing** | * All writing is clear and easily understood * All grammar, punctuation, capitalization etc. is correct | * Most writing is clear and easily understood * Most grammar, punctuation, capitalization etc. is correct | * Some writing is clear and easily understood * Some grammar, punctuation, capitalization etc. is correct | * Little to no writing is clear and easily understood * Little to no grammar, punctuation, capitalization etc. is correct | /6 |
| **Aesthetics** | * All of Presentation/PowerPoint/Prezi is easily followed * All slides are not crowded and visually pleasing * All formatting is consistent in all slides | * Most of Presentation/PowerPoint/Prezi is easily followed * Most slides are not crowded and visually pleasing * Most formatting is consistent in all slides | * Some of Presentation/PowerPoint/Prezi is easily followed * Some slides are not crowded and visually pleasing * Some formatting is consistent in slides | * Little to none of Presentation/PowerPoint/Prezi is easily followed * Few to none of slides are not crowded and visually pleasing * Formatting is inconsistent | /6 |
| **Sources** | EVERY slide has sources cited | MOST slides have sources cited | Some slides have sources cited | Few to no slides have sources cite | /3 |
| Comments: | | | | | /21 |